

## A GROUP WRITE SLAVE AND A METHOD FOR USING SAME

### ABSTRACT OF THE DISCLOSURE

[0041] A design and method of using a group write slave and a sequence alignment logic module including an identification stage, the identification stage having a first ID input, a second ID input, an ID AND gate, and an ID comparator, a select stage, the select stage having a first select input port, a group write comparator, an individual select comparator, an OR gate and a select AND gate, a Slave Module, wherein the Slave Module includes a group wait signal and a group rearbitrate signal and a sequence alignment logic module which includes a gated logic portion having logic circuitry constructed so as to create a sequence alignment logic module output signal by sequencing and combining the plurality of sequence alignment logic module input signals so as to represent the slowest of the sequence alignment logic module input signals.